

NORM-PKP DUAL PROBE N.O.R.M. METER

The NORM-PKP includes the DSM-525, a GM Pancake Probe (cpm) and MRSP-1 Plastic Scintillation probe (Dose Rate). The combination of the two probes are perfect for measuring NORM and TENORM radiation. The NORM-PKP also offers the advantage of very little over response to lower energy gammas resulting in truer measurements which should result in fewer alarms from detector over response. The Pancake and Scintillation probes are both connected to the instrument at the same time so the user can switch between them at any time without having to power the instrument down. The Instrument boasts an oversized auto-ranging digital display with features that include a scaler for counts per unit of time, display error indications and audible/visual ALARMS.



FEATURES:

- ◆ **LARGE DIGITAL DISPLAY**
- ◆ **AUTO RANGING UNITS (cpm for Pancake - μ R/hr for Scintillator)**
- ◆ **DUAL PROBES FOR DOSE RATE (Plastic Scintillator) & COUNT RATE (GM Pancake)**
- ◆ **AUDIBLE/VISUAL ALARMS**
- ◆ **NO CHANGING PROBES JUST TURN SELECTOR KNOB TO DESIRED PROBE**
- ◆ **SCALER FOR COUNTS PER UNIT TIME**

DSM-525 SPECIFICATIONS:

Dose/Counts Switch	Change Dose Rate to Count Rate by Toggling an External Switch
Display	LCD 4-Digit x .75" LCD w/LED Backlight
Two External Probe Inputs	All Johnson Probes
Dose Range	Probe Dependent
Energy Range	Probe Dependent
CPM Range	0-999.9 Kcpm or Kcps
Probe Linearization	Internal adjust for calibration constant and dead time
Scaler Ranges	0-999.9 Kcounts
Scaler Count Time Ranges	10-2550 Seconds (10 second increments)
Alarms	5-95% of Range
Diagnostics	Low Battery, Over-range - Audible & Visual Alarms
Range Adjustment	Auto-Ranging All Scales
Electrical Non-Linearity	< 5% Full Scale
Response Time	Fast - 10-2550 Seconds (adjustable) Slow 10-250 seconds (adjustable)
Drift	< 5%
Environmental	-20°F [-28°C] to 140°F [60°C] 5-95% RH IPX4 Housing
High Voltage Adjustable	400-1250 VDC Regulation +-1%
Battery	6 - "AA" Alkaline (nominal 200hrs Operation)
Dimensions	6.25" (16cm) H x 4" (10cm) W x 7" (18cm) L
Weight	2.5 lbs. (1.2 Kilos)

HP-265 SPECIFICATIONS:

General Use	Alpha, Beta, Gamma Detection
Detector Type	Halogen-Quenched GM Pancake Tube
CPM Range	0-999.9 Kcpm or Kcps
Window	1.7 ± 0.3 mg/cm ² mica, protected by a Copper screen (79% open)
Window Area	Active – 15.5 cm ² (2.4 in ²) Open – 12.3 cm ² (1.9 in ²)
Efficiency (4π)	C ¹⁴ – 5%, SrY ⁹⁰ – 22%, Tc ⁹⁹ – 19%, P ³² - 32%
Energy Response	Energy Dependent
Sensitivity (Cs ¹³⁷ gamma)	≈ 3300 cpm/mR/hr
Operating Voltage	900 vdc
Dead Time	80 μsec
Normal Background	≈ 60 cpm
Environmental	-20°F [-28°C] to 140°F [60°C] 5-95% RH
Dimensions	2.74" (7cm) Dia x 11" (28cm) L
Weight	1lbs (0.45 kg)

MRSP-1 SPECIFICATIONS:

General Use	Low Level Gamma Dose Rate Measurements
Detector Type	1.5" dia x 1" Plastic Scintillator
Dose Range	1 μR/hr - 10 mR/hr (Cs¹³⁷)
Energy Response	40keV – 2 MeV (near tissue equivalent)
Sensitivity (Cs ¹³⁷ gamma)	≈ 100 cpm/μR/hr
Efficiency (4π)	≈ 2%
Background (10 μR/hr)	≈ 900 cpm
Operating Voltage	600 - 1100 vdc
Dead Time	≈ 35 μsec
Compatibility	All Johnson Rate Meters
Environmental	-20°F [-28°C] to 140°F [60°C] 5-95% RH
Dimensions	1.7" (4.25cm) Dia x 6" (15cm) L
Weight	4 oz (0.11 kg)